



Amended set of claims in Serial No. 10/086,902 in response to Non-Compliant amendment Notice and under Revised Amendment Practice ...submitted 9/13/03

Proposed changes for CIP case.

1. (Currently cancelled) An aqueous synfuel composition for use as an additive to combustible materials to facilitate complete combustion, said aqueous composition comprising 1.0% weight of polyvinyl alcohol, 10.0 to 35% by weight of a hydrocarbon wax and the balance of water, wherein all weight percentages are based on the total weight of the composition.
2. (Currently cancelled) An aqueous synfuel composition as claimed in claim 1 which is in the form of an emulsion.
3. (Currently cancelled) An aqueous synfuel composition as claimed in claim 1 wherein the hydrocarbon wax is selected from the group consisting of paraffin wax, slack wax, microcrystalline wax, other olefinic wax-like materials and mixtures thereof.
4. (Currently cancelled) An aqueous synfuel composition as claimed in claim 1 which comprises 2 to 5% by weight of polyvinyl alcohol, 15 to 30% weight of a hydrocarbon wax, 0 to 0.5% of a biocide and the balance of water.

5. (Currently cancelled) An aqueous synfuel composition as claimed in claim 4 which comprises 2 to 4.5% by weight of polyvinyl alcohol, 16 to 26% by weight of a hydrocarbon wax, 0 to 0.10% by weight of a biocide and the balance of water.

6. (Currently cancelled) An aqueous composition as claimed in claim 5 which further comprises 1.0% to 10.0% by weight of one or more filler materials, based on the total weight of the composition.

7. (Currently cancelled) The method of assisting complete combustion of material, said method comprising the step of applying to the material, a film of aqueous composition which comprises 1.0 to 10.0% by weight of polyvinyl alcohol, 10.0 to 35.0% by weight of a hydrocarbon wax, and the balance of water, wherein all weight percentages are based on the total weight of the composition.

8. (Currently cancelled) A method as claimed in claim 7 wherein said composition is in the form of an emulsion.

9. (Currently cancelled) A method as claimed in claim 7 wherein said composition also includes 1.0 to 10.0 % by weight of a filler material, based on the total weight of the composition.

10. (Currently cancelled) A method as claimed in claim 7 wherein said composition comprises 2 to 4.5% by weight of polyvinyl alcohol, 16 to 26% by weight of

a hydrocarbon wax, 0 to 0.505 by weight of a biocide, and the balance of water.

10. (Currently cancelled) A method as claimed in claim 7 wherein the composition is applied by means of spraying on the material .
12. (Currently cancelled) A method as claimed in claim 7 wherein the material is coal.
13. (Currently cancelled) A method as claimed in claim 7 wherein said method complies with the Federal Air Quality Regulations.
14. (Currently cancelled) The aqueous synfuel composition as in claim 1 and including a percentage of polyvinyl acetate in said composition.
15. (Currently cancelled) The aqueous synfuel composition of claim 14 wherein said percentage of polyvinyl acetate is 10%.
16. (Currently cancelled) The aqueous synfuel composition of claim 1 and including raw coal added to said composition.
17. (Currently cancelled) The composition of claim 16 and including polyvinyl acetate.

18. (Currently cancelled) The composition of claim 17 wherein the percentage of polyvinyl acetate is 10%.
19. (Currently cancelled) The composition of claim 16 wherein the range of polyvinyl acetate is from 0% to 20%.
20. (Currently cancelled) The composition of claim 16 wherein said coal is high density coal.
21. (Currently amended) A [synfuel composition] chemical change reagent for use as an additive to combustible materials to facilitate complete combustion, said [composition] reagent [including] consisting essentially of a hydrocarbon wax, [a second wax] stearic acid or other fatty acids and water.
22. (Currently amended) A [synfuel composition] chemical change reagent as in claim 21 and [including] further consisting essentially of titanium dioxide.
23. (Currently amended) A [synfuel composition] chemical change reagent as in claim 22 wherein the hydrocarbon wax [is selected from] is a member of the group consisting of paraffin wax, slack wax, microcrystalline wax, olefinic wax[-like] materials and mixtures thereof.
24. (Currently amended) A [synfuel composition] chemical change reagent as in claim 22 [221] where said hydrocarbon wax is paraffin wax with paraffin oil.

25. (Currently cancelled) A composition as in claim 24 wherein the other wax is stearic acid.
26. (Currently amended) A [composition] chemical change reagent as in claim 21 and [including] further consisting of ammonia.
27. (Currently amended) A [composition] chemical change reagent as in claim 21 and [including] consisting essentially of 2.0% by weight of the stearic acid or other fatty cid [the other wax.].
28. (Currently amended) A [composition] chemical change reagent as in claim 21 and [including] consisting essentially of 46% by weight of paraffin wax.
29. (Currently amended) A [composition] chemical change reagent as in claim 21 and [including] further consisting essentially of 4.5% by weight of titanium dioxide.
30. (Currently amended) A [synfuel composition] chemical change reagent for use as a combustible fuel additive to enhance complete combustion, said [composition] reagent consisting of the following:

Slack Wax	46.3%
Other wax	2.0%
Ammonia	0.2%
Titanium Dioxide	4.5%
Water	47.0%

31. (Currently amended) A [composition] chemical change reagent as in claim 30 wherein said other wax is [Steareric] stearic acid.
32. (Currently amended) A [composition] chemical change reagent as in claim 30 wherein said [hydrocarbon] other wax is paraffin wax.
33. (Claim 33 was never submitted as it was omitted from the initial filing)
34. (Currently amended) The method of assisting complete combustion of a material, said method comprising the step of applying to the material a [composition] chemical change reagent which [includes] consists essentially of a hydrocarbon wax, a second wax, ammonia and water.
35. (Currently cancelled) The method of claim 34 wherein said second wax is Stearic acid.
36. (Currently amended) The method of claim 34 wherein said [composition] chemical change reagent [includes] further consists essentially of [comprises] titanium dioxide.
37. (Currently amended) The method of claim 34 and [including] further essentially consisting of a base for ph adjustment.

38. (Currently amended) The method of claim 37 wherein said base is Potassium hydroxide.

39. (Currently amended) The method of claim 37 wherein said base is Sodium hydroxide.

40. (Currently amended) The method of claim 34 wherein the [the range of] waxes are present from one half of one percent to seventy percent by weight.

41. (Currently amended) [An additive] A chemical change reagent for enhancing the combustion of coal, said [additive] reagent [comprising] selected from the group consisting essentially [the following composition] by weight of.

Waxes essentially consisting of paraffin wax and stearic acid or other fatty acids	$\frac{1}{2}\%$ to 70%
	$\frac{1}{2}\%$ to 70%
Base for ph adjustment	0.2%
Water	30% to 99%

42. (Currently amended) [An additive] A chemical change reagent as in claim 41 and further consisting essentially of [including] titanium dioxide.

43. (Currently cancelled) An additive as in claim 41 wherein said wax includes a

paraffin wax.

44. (Currently cancelled) An additive as in claim 41 wherein said wax includes stearic acid.

further consisting essentially of titanium dioxide.

23. A [synfuel composition] chemical change reagent as in claim 22 wherein the hydrocarbon wax [is selected from] is a member of the group consisting of paraffin wax, slack wax, microcrystalline wax, olefinic wax [-like] materials and mixtures thereof.
24. A [synfuel composition] chemical change reagent as in claim 22 [221] where said hydrocarbon wax is paraffin wax with paraffin oil.
25. Cancel claim 25
26. A [composition] chemical change reagent as in claim 21 and [including] further consisting essentially of ammonia.
27. A [composition] chemical change reagent as in claim 21 and [including] consisting essentially of 2.0% by weight of the stearic acid or other fatty acid [the other wax].
28. A [composition] chemical change reagent as in claim 21 and [including] further consisting essentially of 46% by weight of paraffin wax.
29. A [composition] chemical change reagent as in claim 21 and [including] further consisting essentially of 4.5% by weight of titanium dioxide.
30. A [synfuel composition] chemical change reagent for use as a combustible fuel additive to enhance complete combustion, said [composition] reagent consisting of the following:

Slack Wax	46.3%
Other wax	2.0%
Ammonia	0.2%
Titanium Dioxide	4.5%
Water	47.0%

31. A [composition] reagent as in claim 30 wherein said other wax is [Steareric] stearic acid.
32. A [composition] reagent as in claim 30 wherein said [hydrocarbon] other wax is paraffin wax.
34. The method of assisting complete combustion of a material, said method comprising the step of applying to the material a [composition] chemical change reagent which [includes] consists essentially of a hydrocarbon wax, [a second wax] stearic acid or other fatty acid , ammonia and water.
35. Cancel claim 35
36. The method of claim 34 wherein said [composition] chemical change reagent [includes] further consists essentially of titanium dioxide.
37. The method of claim 34 and [including] further essentially consisting of a base for ph adjustment.
38. The method of claim 37 wherein said base is Potassium hydroxide.
39. The method of claim 37 wherein said base is Sodium hydroxide.
40. The method of claim 34 wherein the [the range of wax] waxes are present from

one half of one percent to seventy percent by weight.

41. [An additive] A chemical change reagent for enhancing the combustion of coal, said [additive] reagent [comprising] selected from the group consisting essentially by weight of:

Waxes essentially consisting of
paraffin wax and stearic acid or
other fatty acids

½% to 70%

Base for ph adjustment

0.2%

Water

30% to 99%

42. [An additive] A chemical change reagent as in claim 41 and further consisting essentially of [including] titanium dioxide.

43. Cancel claim 43

44. Cancel claim 44

COMMENTS

The undersigned wishes, again, to thank the Examiner for her acquiescence to the interview granted in this case and the earlier case 09/757,765 and her unfailing determination to work with counsel to arrive at claims which both accurately define the invention yet clearly define over any prior art. The inventor and the two other gentlemen accompanying counsel also extend their thanks for the interview. It was most

productive.

The invention has been named a chemical change agent which is supported by the specification and more clearly defines the invention.

Claims 1-20 have been cancelled to avoid any double patenting issues and a few other claims have been cancelled as the content of those claims was inserted into the independent claims on which they depended.

As suggested by the Examiner, the term "consisting essentially of" has been inserted throughout and other informalities noted by the Examiner in the last Office action have been corrected.

The discussion of Borenstein and how his compound could not affect the results attained by the chemical change agent of the instant invention was clearly discussed by the inventor, Mr. Hundley and the claims have been further modified to include those recitations which make it impossible for the compound of Borenstein to be cited as a to patentability with his use of montan wax.

In regards to the Chinese prior art disclosures, it was pointed out that the Sodium Hydroxide of the disclosures would stop the very chemical change the applicant is achieving . This in particular affects disclosure No. 1209729. The remaining disclosures deal with explosives and if applied in the same manner as applicant's agent would result in an explosion, hardly what applicant is attempting to achieve.

The Examiner is authorized to change the title of the invention to -Chemical Change Agent and Method of Using Same--. In addition, the Examiner is authorized to make any formal changes by Examiners amendment which have been discussed and over looked by the undersigned in this amendment.

Respectfully submitted,

James W. Hiney, Esq.
Attorney of Record
Reg. No. 24, 705
1872 Pratt Drive, Suite 1100
Blacksburg, VA 24060
(540) 552-4400

Certification of Mailing

I, James W. Hiney, do hereby certify that an executed copy of this amendment was deposited, Express Mail Postage Prepaid, No. ER 132608237 US, with the United States Postal Service, this 27th day of June, 2003 and addressed to the addressed noted above.

James W. Hiney